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TERMINAL (ENTER 1, 2, 3, OR ?):2

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and
IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and
ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
 saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
 now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search fields
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on
STN
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36 Dec 17 TOXCENTER enhanced with additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN

NEWS 38 Dec 30 ISMEC no longer available
NEWS 39 Jan 21 NUTRACEUT offering one free connect hour in February 2003
NEWS 40 Jan 21 PHARMAML offering one free connect hour in February 2003
NEWS 41 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
ENERGY, INSPEC
NEWS 42 Feb 13 CANCERLIT is no longer being updated
NEWS 43 Feb 24 METADEX enhancements
NEWS 44 Feb 24 PCTGEN now available on STN
NEWS 45 Feb 24 TEMA now available on STN
NEWS 46 Feb 26 NTIS now allows simultaneous left and right truncation
NEWS 47 Feb 26 PCTFULL now contains images
NEWS 48 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 49 Mar 19 APOLLIT offering free connect time in April 2003
NEWS 50 Mar 20 EVENTLINE will be removed from STN
NEWS 51 Mar 24 PATDPAFULL now available on STN
NEWS 52 Mar 24 Additional information for trade-named substances without
structures available in REGISTRY
NEWS 53 Mar 24 Indexing from 1957 to 1966 added to records in CA/CAPLUS

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS INTER General Internet Information

NEWS LOGIN Welcome Banner and News Items

NEWS PHONE Direct Dial and Telecommunication Network Access to STN

NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 09:54:27 ON 04 APR 2003

FILE 'REGISTRY' ENTERED AT 09:54:34 ON 04 APR 2003
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 2 APR 2003 HIGHEST RN 501410-52-2

DICTIONARY FILE UPDATES: 2 APR 2003 HIGHEST RN 501410-52-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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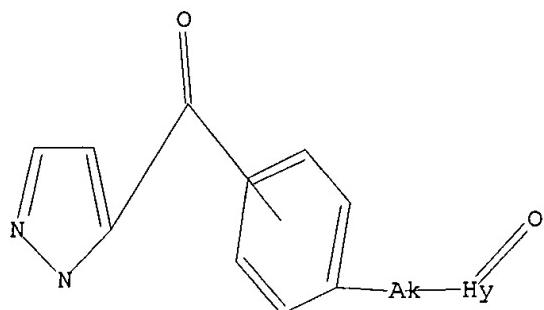
Uploading 09937631.str

L1 STRUCTURE uploaded

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 ful

FULL SEARCH INITIATED 09:54:47 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 66867 TO ITERATE

100.0% PROCESSED 66867 ITERATIONS
SEARCH TIME: 00.00.02

0 ANSWERS

L2 0 SEA SSS FUL L1

=>

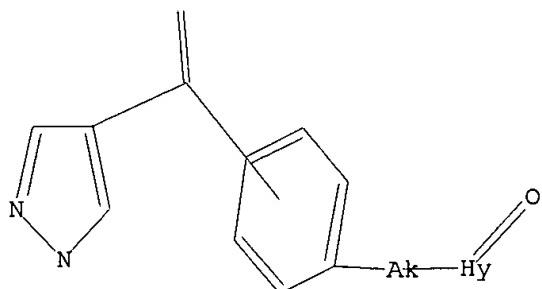
Uploading 09937631.str

L3 STRUCTURE uploaded

=> d

L3 HAS NO ANSWERS

L3 STR



Structure attributes must be viewed using STN Express query preparation.

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FULL SCREEN SEARCH COMPLETED - 66867 TO ITERATE
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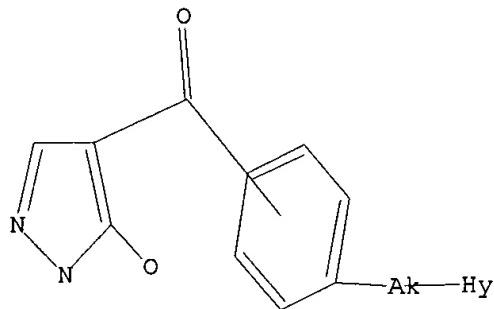
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100.0% PROCESSED    66867 ITERATIONS          0 ANSWERS
SEARCH TIME: 00.00.02
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```
L4          0 SEA SSS FUL L1
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=>
Uploading 09937631.str
```

```
L5      STRUCTURE UPLOADED
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```
=> d
L5 HAS NO ANSWERS
L5      STR
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Structure attributes must be viewed using STN Express query preparation.

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=> s 15 ful
FULL SEARCH INITIATED 09:56:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 12321 TO ITERATE
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100.0% PROCESSED    12321 ITERATIONS          56 ANSWERS
SEARCH TIME: 00.00.01
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L6 56 SEA SSS FUL L5

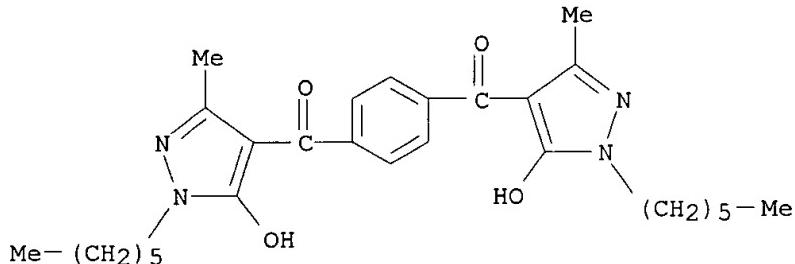
=> s 16 and caplus/lc
27129798 CAPLUS/LC

L7 55 L6 AND CAPLUS/LC

=> s 16 not 17
L8 1 L6 NOT L7

=> d

L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN 347399-60-4 REGISTRY
CN Methanone, 1,4-phenylenebis[(1-hexyl-5-hydroxy-3-methyl-1H-pyrazol-4-yl)-
(9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C28 H38 N4 O4
SR Chemical Library
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> fil caplus

COST IN U.S. DOLLARS

FULL ESTIMATED COST

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 450.35 | 450.56 |

FILE 'CAPLUS' ENTERED AT 09:56:22 ON 04 APR 2003

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FILE COVERS 1907 - 4 Apr 2003 VOL 138 ISS 15
FILE LAST UPDATED: 3 Apr 2003 (20030403/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 09:54:27 ON 04 APR 2003)

FILE 'REGISTRY' ENTERED AT 09:54:34 ON 04 APR 2003

L1 STRUCTURE uploaded
L2 0 S L1 FUL
L3 STRUCTURE uploaded
L4 0 S L2 FUL
L5 STRUCTURE uploaded
L6 56 S L5 FUL
L7 55 S L6 AND CAPLUS/LC
L8 1 S L6 NOT L7

FILE 'CAPLUS' ENTERED AT 09:56:22 ON 04 APR 2003

=> s 16
L9 14 L6

=> s wo0058306/pn
L10 0 WO0058306/PN
(WO58306/PN)

=> s wo200058306/pn
L11 1 WO200058306/PN
(WO2000058306/PN)

=> s 19 not l11
L12 13 L9 NOT L11

=> d 1-13 ibib abs hitstr

L12 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:107336 CAPLUS
DOCUMENT NUMBER: 136:151159
TITLE: Preparation of heteroarylidene cyanamides as herbicides
INVENTOR(S): Mueller, Klaus-Helmut; Herrmann, Stefan; Hoischen, Dorothee; Lehr, Stefan; Schwarz, Hans-Georg; Schallner, Otto; Drewes, Mark Wilhelm; Dahmen, Peter; Feucht, Dieter; Pontzen, Rolf
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 85 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|-------|-------|-----------------|-------|
| ----- | ----- | ----- | ----- | ----- |

WO 2002010155 A1 20020207 WO 2001-EP8225 20010717
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
 RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
 UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10037149 A1 20020207 DE 2000-10037149 20000729

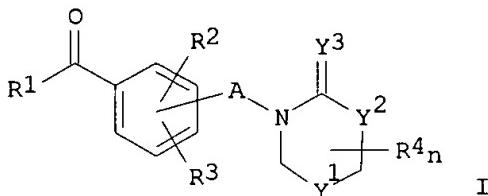
PRIORITY APPLN. INFO.:

DE 2000-10037149 A 20000729

OTHER SOURCE(S):

MARPAT 136:151159

GI



AB Title compds. [I; n = 0-4; A = alkylene; R1 = (substituted) 1-oxocyclohex-2-en-2-yl, 1H-pyrazol-4-yl, 4-isoxazolyl, alkylcarbonyl; R2, R3 = H, NO₂, cyano, CO₂H, carbamoyl, thiocarbamoyl, halo, (substituted) alkyl, alkoxy, etc.; R4 = (substituted) alkyl; Y1 = bond, O, S, NZ, (substituted) alkylene; Y2 = S, NZ; Y3 = NY₄, NY₄Y₅, O; Y4 = H, cyano, NO₂, (substituted) alkylcarbonyl, alkylsulfonyl, arylcarbonyl, arylsulfonyl; Y5 = cyano, NO₂, (substituted) alkylcarbonyl, alkylsulfonyl, arylcarbonyl, arylsulfonyl; Z = H, (substituted) alkyl, alkenyl, alkynyl], were prep'd. Thus, a mixt. of 2-[(2-cyanoimino-1,3-thiazol-3-yl)methyl]-4-trifluoromethylbenzoic acid (prepn. given), 1,3-cyclohexanedione, and dicyclohexylcarbodiimide (DCC) in MeCN was stirred for 20 h at room temp. followed by addn. of Et₃N and Me₃SiCN and stirring for 2 h at room temp. to give 3-[2-([2,6-dioxocyclohexyl]carbonyl)-5-trifluoromethylbenzyl]-1,3-thiazol-2-ylidene cyanamide. It was said to show very strong pre- and postemergent herbicidal activity and good crop tolerance.

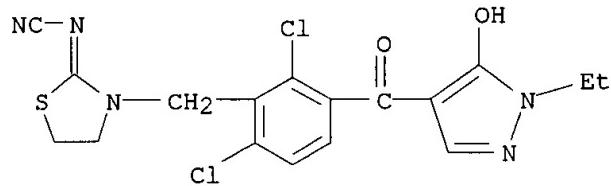
IT 395069-24-6P 395069-26-8P 395069-35-9P
 395069-36-0P 395069-37-1P 395069-38-2P
 395069-41-7P
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation);

USES (Uses)
 (prepn. of heteroarylidene cyanamides as herbicides)

RN 395069-24-6 CAPLUS

CN Cyanamide, [3-[[2,6-dichloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-

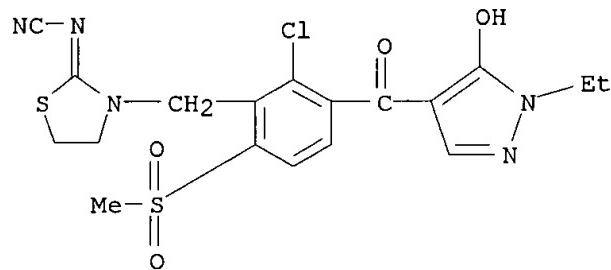
yl)carbonyl]phenyl)methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX NAME)



RN 395069-26-8 CAPLUS

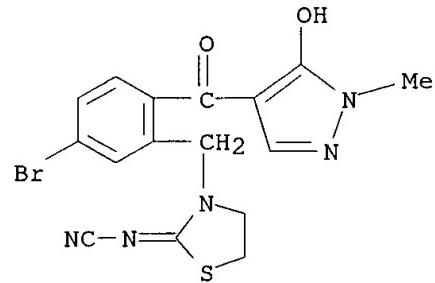
CN Cyanamide,

[3-[(2-chloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-6-(methylsulfonyl)phenyl)methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX NAME)



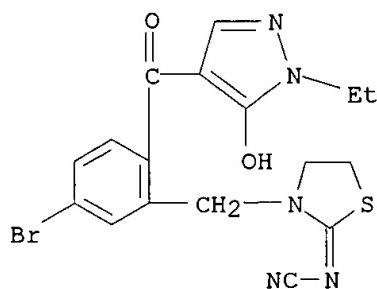
RN 395069-35-9 CAPLUS

CN Cyanamide, [3-[(5-bromo-2-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]phenyl)methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX NAME)



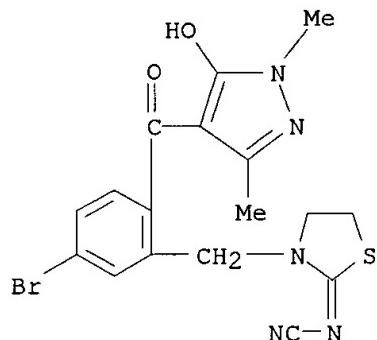
RN 395069-36-0 CAPLUS

CN Cyanamide, [3-[(5-bromo-2-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl)methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX NAME)



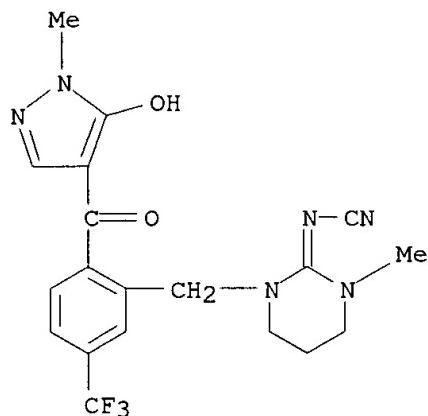
RN 395069-37-1 CAPLUS

CN Cyanamide, [3-[[5-bromo-2-[(5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)carbonyl]phenyl]methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX NAME)



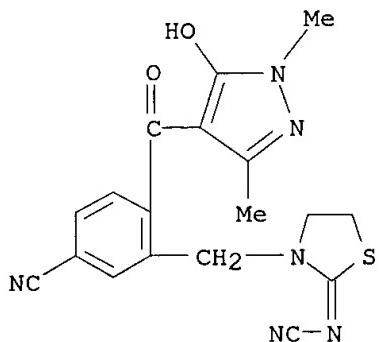
RN 395069-38-2 CAPLUS

CN Cyanamide, [tetrahydro-1-[[2-[(5-hydroxy-1-methyl-1H-pyrazol-4-yl)carbonyl]-5-(trifluoromethyl)phenyl]methyl]-3-methyl-2(1H)-pyrimidinylidene]- (9CI) (CA INDEX NAME)



RN 395069-41-7 CAPLUS

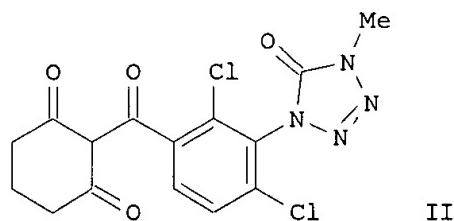
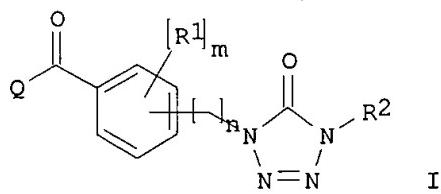
CN Cyanamide, [3-[[5-cyano-2-[(5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)carbonyl]phenyl]methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L12 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:115133 CAPLUS
 DOCUMENT NUMBER: 134:163041
 TITLE: Preparation of herbicidal tetrazolinones
 INVENTOR(S): Yanagi, Akihiko; Narabu, Shinichi; Goto, Toshio; Ito, Seishi; Ueno, Chieko
 PATENT ASSIGNEE(S): Nihon Bayer Agrochem K.K., Japan
 SOURCE: PCT Int. Appl., 115 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|-------------------|----------|------------------|------------|
| WO 2001010850 | A1 | 20010215 | WO 2000-IB1064 | 20000728 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| BR 2000013075 | A | 20020521 | BR 2000-13075 | 20000728 |
| EP 1208090 | A1 | 20020529 | EP 2000-944182 | 20000728 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL | | | | |
| JP 2003506443 | T2 | 20030218 | JP 2001-515316 | 20000728 |
| JP 2001114769 | A2 | 20010424 | JP 2000-231450 | 20000731 |
| PRIORITY APPLN. INFO.: | | | JP 1999-226845 A | 19990810 |
| | | | WO 2000-IB1064 | W 20000728 |
| OTHER SOURCE(S): | MARPAT 134:163041 | | | |
| GI | | | | |



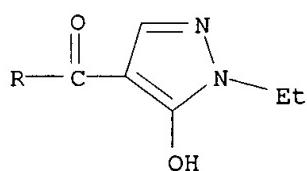
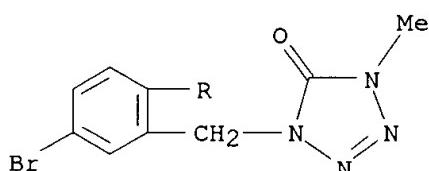
AB The title compds. [I; R₁ = halo, alkyl, haloalkyl, etc.; R₂ = H, alkyl, (un)substituted cycloalkyl, etc.; m = 0-2; n = 0-1; Q = (un)substituted 1,3-dioxo-2-cyclohexanyl, 5-hydroxy-4-pyrazolyl, 4-isoxazolyl, etc.], useful as herbicides, were prep'd. Thus, treatment of 2,4-dichloro-3-(4,5-

dihydro-4-methyl-5-oxo-1H-tetrazol-1-yl)benzoic acid with SOCl₂ followed by reaction of the resulting acid chloride with 1,3-cyclohexanedione afforded 51% II which showed more than 90% of herbicidal activity against barnyardgrass, foxtail, common amaranth and knotweed at 2.0 kg/ha.

IT 325459-96-9P 325460-11-5P 325460-19-3P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of herbicidal tetrazolinones)

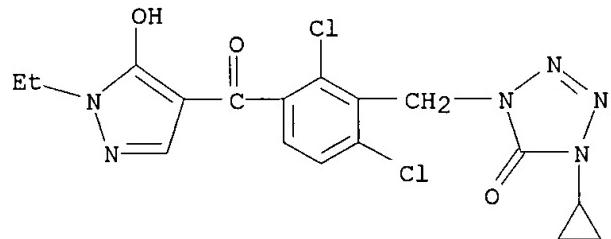
RN 325459-96-9 CAPPLUS

CN 5H-Tetrazol-5-one, 1-[[5-bromo-2-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl]methyl]-1,4-dihydro-4-methyl- (9CI) (CA INDEX NAME)

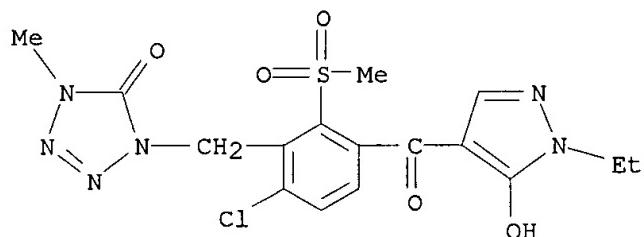


RN 325460-11-5 CAPPLUS

CN 5H-Tetrazol-5-one,
1-cyclopropyl-4-[{2,6-dichloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl}methyl]-1,4-dihydro- (9CI) (CA INDEX NAME)



RN 325460-19-3 CAPLUS
CN 5H-Tetrazol-5-one, 1-[[6-chloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-2-(methylsulfonyl)phenyl]methyl]-1,4-dihydro-4-methyl- (9CI)
(CA INDEX NAME)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L12 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:50625 CAPLUS
DOCUMENT NUMBER: 134:100866
TITLE: Preparation of N-alkyl-3-alkenylbenzoylpypyrazoles as
herbicides.
INVENTOR(S): Neidlein, Ulf; Gotz, Norbert; Baumann, Ernest; Von
Deyn, Wolfgang; Kudis, Steffen; Gotz, Roland;
Langemann, Klaus; Mayer, Guido; Misslitz, Ulf;
Witschel, Matthias; Otten, Martina; Westphalen,
Karl-Otto; Walter, Helmut
PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany; Von Deyn, Wolfgang
SOURCE: PCT Int. Appl., 34 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| WO 2001004095 | A2 | 20010118 | WO 2000-EP5857 | 20000623 |

WO 2001004095 A3 20010426

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

BR 2000012285 A 20020326 BR 2000-12285 20000623

EP 1194408 A2 20020410 EP 2000-942128 20000623

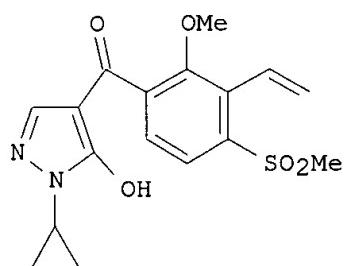
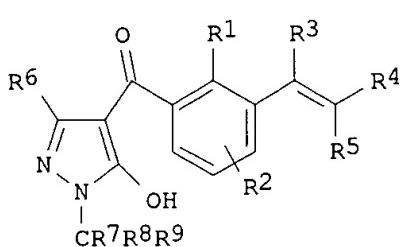
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO

JP 2003504355 T2 20030204 JP 2001-509706 20000623

PRIORITY APPLN. INFO.: DE 1999-19931881 A 19990709
WO 2000-EP5857 W 20000623

OTHER SOURCE(S): MARPAT 134:100866

GI



AB Title compds. [I; R1 = H, NO₂, halo, cyano, rhodano, alkyl, alkoxy, haloalkyl, alkylthio, alkenyl, alkynyl; R2 = SONR10, SO₂OR11, NR12SO₂R13, etc.; R3 = H, halo, alkyl, haloalkyl, alkoxy, alkenyl, alkynyl; R4, R5 = H, NO₂, halo, cyano, rhodano, alkyl, haloalkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, alkylthio, halolalkoxy, etc.; R6 = H, halo, alkyl, alkoxy, cycloalkyl; R7, R8, R9 = H, alkyl, haloalkyl, cyanoalkyl; n = 0-2;

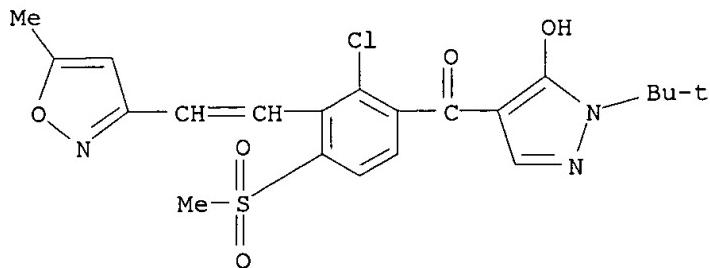
R10 = alkyl, haloalkyl, alkoxyalkyl, alkenyl, alkynyl; R11 = H, alkyl, haloalkyl, alkoxyalkyl, alkenyl, alkynyl; R12 = H, alkyl; R13 = alkyl, haloalkyl], were prepd. Thus, title compd. (II) at 0.125 kg/ha postemergent gave complete control of lambsquarters and ladysthumb.

IT 319906-64-4P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of N-alkyl-3-alkenylbenzoylpypyrazoles as herbicides)

RN 319906-64-4 CAPLUS

CN Methanone, [2-chloro-3-[2-(5-methyl-3-isoxazolyl)ethenyl]-4-(methylsulfonyl)phenyl][1-(1,1-dimethylethyl)-5-hydroxy-1H-pyrazol-4-yl]-(9CI) (CA INDEX NAME)



L12 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:614080 CAPLUS

DOCUMENT NUMBER: 133:304904

TITLE: Coordination number incommensurate cluster formation,
part 14. Lord of the rings: an octameric lanthanum
pyrazolonate cluster

AUTHOR(S): Xu, Jide; Raymond, Kenneth N.

CORPORATE SOURCE: Department of Chemistry, University of California,
Berkeley, CA, 94720, USA

SOURCE: Angewandte Chemie, International Edition (2000),
39(15), 2745-2747

CODEN: ACIEF5; ISSN: 1433-7851

PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal

LANGUAGE: English

AB 4-(1,3,5-Benzenetricarbonyl)tris(3-methyl-1-phenyl-2-pyrazolin-5-one)
(H3L) was prep'd. from 3-methyl-1-phenyl-2-pyrazolin-5-one and
1,3,5-benzenetricarbonyl trichloride and reacted with La(acac)₃ to give
[La₈L₈(DMSO)₃]. The crystal structure of

[La₈L₈.9.3MeOH.10.7DMSO.4H₂O].20

MeOH.12H₂O.x(solvent) was detd.: tetragonal, space group P4/n, Z = 2, R1

= 0.1274, wR2 = 0.248. This complex has a unique square antiprismatic,
3-dimensional ring structure [La₈L₈]. Each La atom is coordinated by 3 L
and each ligand coordinates to 3 La atoms. In this cluster
nine-coordinate La atoms are linked by 6-coordinate chelate ligands. The
residual coordination sites of the La atoms are occupied by solvent mols.

IT 250773-77-4P

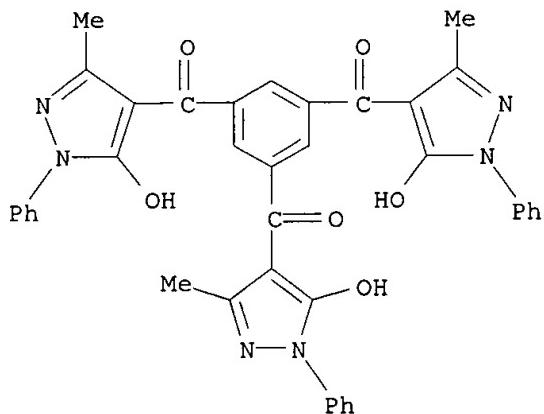
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(prepn. and complexation with lanthanum)

RN 250773-77-4 CAPLUS

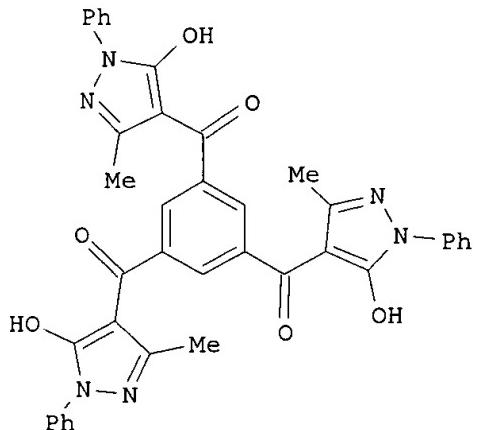
CN Methanone,

1,3,5-benzenetricarbonyltris[(5-hydroxy-3-methyl-1-phenyl-1H-pyrazol-
4-yl)- (9CI) (CA INDEX NAME)]



REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L12 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1999:676247 CAPLUS
 DOCUMENT NUMBER: 132:8465
 TITLE: Coordination number incommensurate cluster formation,
 part 12. Self-assembly of a three-dimensional
 [Ga₆(L₂)₆] metal-ligand "cylinder"
 AUTHOR(S): Johnson, Darren W.; Xu, Jide; Saalfrank, Rolf W.;
 Raymond, Kenneth N.
 CORPORATE SOURCE: Department of Chemistry, University of California,
 Berkeley, CA, 94720, USA
 SOURCE: Angewandte Chemie, International Edition (1999),
 38(19), 2882-2885
 CODEN: ACIEF5; ISSN: 1433-7851
 PUBLISHER: Wiley-VCH Verlag GmbH
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB The 3-fold sym., tris-.beta.-diketonate ligand I (H_3L_2) reacts with $Ga(acac)_3$ ($acac = acetylacetone$) in DMSO at 90.degree. to afford $[Ga_6(L_2)_6]$, a "cylinder" cluster having idealized D_3 symmetry. A crystal structure study of the new cluster geometry shows Ga atoms define a distorted trigonal antiprism in which six ligands make up the equatorial faces of the cylinder with a hole at the top and the bottom. The mol. exists as a racemic mixt. of homochiral, hexanuclear clusters (.DELTA..DELTA..DELTA..DELTA..DELTA..DELTA. or .LAMBDA..LAMBDA..LAMBDA..LAMBDA..LAMBDA..LAMBDA.) in the solid state and in soln. The complicated 1H and ^{13}C NMR spectra of $[Ga_6(L_2)_6]$ are discussed.

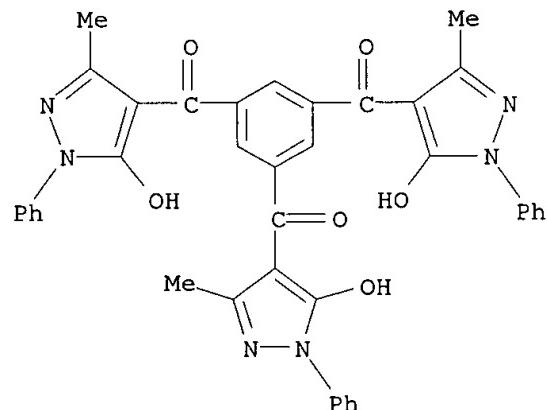
IT **250773-77-4P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and complexation with gallium(III) to give hexanuclear cylinder cluster)

RN 250773-77-4 CAPLUS

CN Methanone,

1,3,5-benzenetriyltris[(5-hydroxy-3-methyl-1-phenyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:126893 CAPLUS
DOCUMENT NUMBER: 130:168367
TITLE: Preparation of 4-benzoylpyrazoles as herbicides
INVENTOR(S): Engel, Stefan; Rheinheimer, Joachim; Baumann, Ernst;
Von Deyn, Wolfgang; Hill, Regina Luise; Mayer, Guido;
Misslitz, Ulf; Wagner, Oliver; Witschel, Matthias;
Otten, Martina; Walter, Helmut; Westphalen, Karl-Otto
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 99 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: German

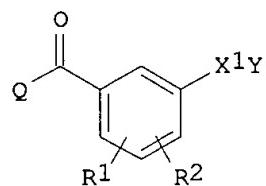
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

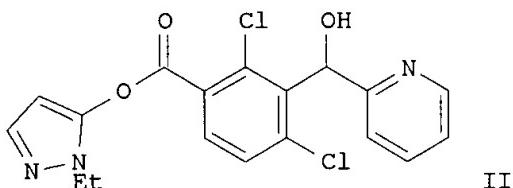
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|--------------------|----------|
| WO 9907697 | A1 | 19990218 | WO 1998-EP4481 | 19980720 |
| W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, ID, IL, JP, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| AU 9890665 | A1 | 19990301 | AU 1998-90665 | 19980720 |
| EP 1003736 | A1 | 20000531 | EP 1998-942572 | 19980720 |
| R: CH, DE, FR, GB, LI | | | | |
| JP 2001512726 | T2 | 20010828 | JP 2000-506201 | 19980720 |
| ZA 9807055 | A | 20000207 | ZA 1998-7055 | 19980806 |
| US 6156702 | A | 20001205 | US 2000-485232 | 20000207 |
| PRIORITY APPLN. INFO.: | | | DE 1997-19734186 A | 19970807 |
| | | | WO 1998-EP4481 W | 19980720 |

OTHER SOURCE(S): MARPAT 130:168367

GI



I



II

AB Title compds. [I; R1, R2 = H, SH, NO₂, halo, cyano, rhodano, alkyl, haloalkyl, alkoxy, alkenyl, alkynyl, OR₃, O₂CR₃, OSO₂R₃, NR₃SO₃R₃, etc.; R₃ = H, (substituted) alkyl, haloalkyl, alkenyl, alkynyl, Ph, phenylalkyl;

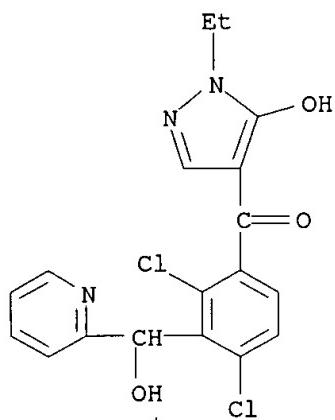
Q = specified pyrazolyl residue; X₁ = (substituted) alkylene, alkenylene, alkynylene; Y = 3-6 membered (substituted) heteroaryl, (satd.) heterocycl, were prep'd. as herbicides (no data). Thus, 2,4-dichloro-3-[(2-pyridyl)(hydroxymethyl)]benzoic acid (prepn. given), 1-ethyl-5-hydroxypyrazole, and DCC were stirred in MeCN to give title compd. (II).

IT 220282-95-1P 220282-96-2P 220282-97-3P
220282-98-4P 220282-99-5P 220283-00-1P
220283-01-2P 220283-02-3P 220283-03-4P
220283-04-5P 220283-05-6P 220283-06-7P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of 4-benzoylpyrazoles as herbicides)

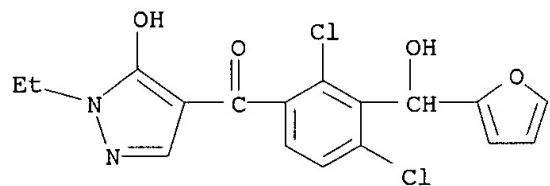
RN 220282-95-1 CAPLUS

CN Methanone, [2,4-dichloro-3-(hydroxy-2-pyridinylmethyl)phenyl](1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



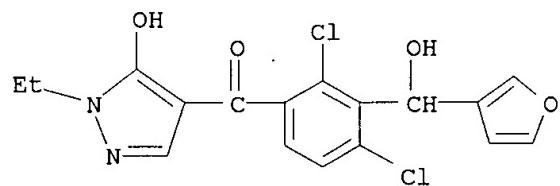
RN 220282-96-2 CAPLUS

CN Methanone, [2,4-dichloro-3-(2-furanylhydroxymethyl)phenyl](1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



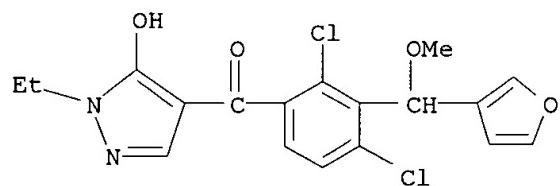
RN 220282-97-3 CAPLUS

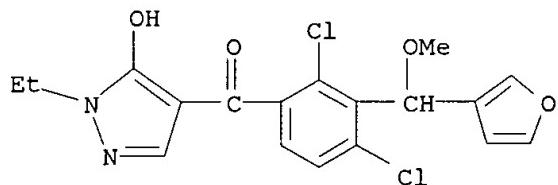
CN Methanone, [2,4-dichloro-3-(3-furanylhydroxymethyl)phenyl](1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



RN 220282-98-4 CAPLUS

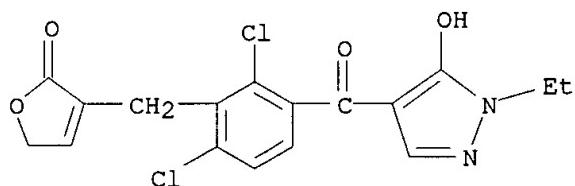
CN Methanone, [2,4-dichloro-3-(3-furanylmethoxymethyl)phenyl](1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)





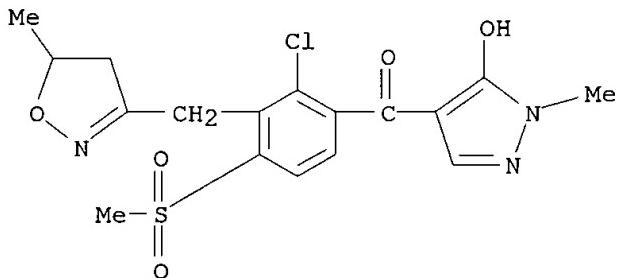
RN 220282-99-5 CAPLUS

CN 2(5H)-Furanone, 3-[(2,6-dichloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl)methyl]- (9CI) (CA INDEX NAME)



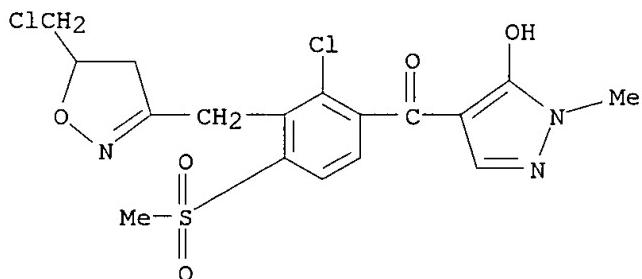
RN 220283-00-1 CAPLUS

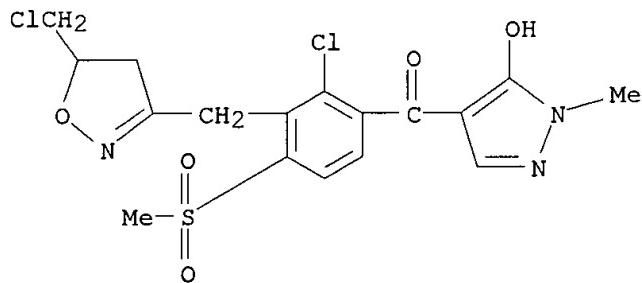
CN Methanone, [2-chloro-3-[(4,5-dihydro-5-methyl-3-isoxazolyl)methyl]-4-(methylsulfonyl)phenyl](5-hydroxy-1-methyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



RN 220283-01-2 CAPLUS

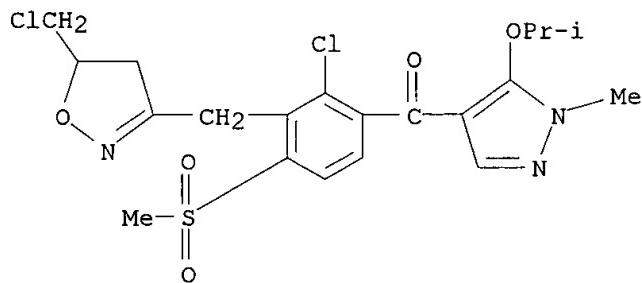
CN Methanone, [2-chloro-3-[(5-(chloromethyl)-4,5-dihydro-3-isoxazolyl)methyl]-4-(methylsulfonyl)phenyl](5-hydroxy-1-methyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)





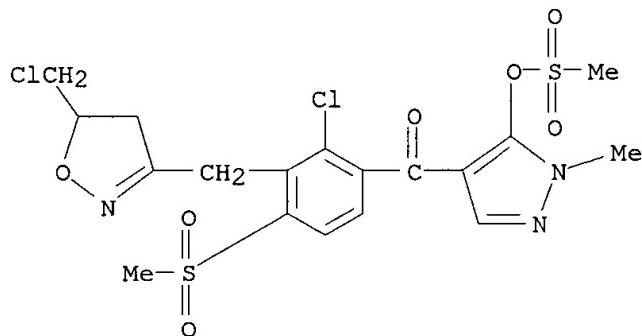
RN 220283-02-3 CAPLUS

CN Methanone,
[2-chloro-3-[(5-(chloromethyl)-4,5-dihydro-3-isoxazolyl)methyl]-
4-(methylsulfonyl)phenyl][1-methyl-5-(1-methylethoxy)-1H-pyrazol-4-yl]-
(9CI) (CA INDEX NAME)



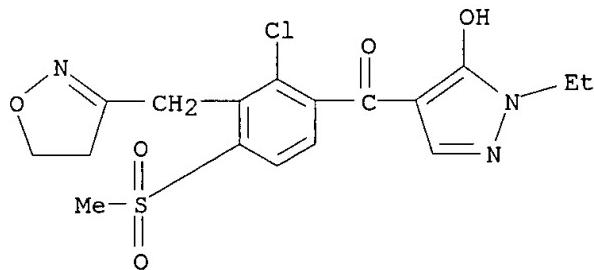
RN 220283-03-4 CAPLUS

CN Methanone,
[2-chloro-3-[(5-(chloromethyl)-4,5-dihydro-3-isoxazolyl)methyl]-
4-(methylsulfonyl)phenyl][1-methyl-5-[(methylsulfonyl)oxy]-1H-pyrazol-4-
yl]- (9CI) (CA INDEX NAME)



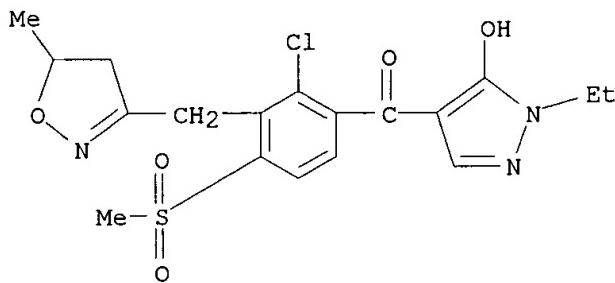
RN 220283-04-5 CAPLUS

CN Methanone, [2-chloro-3-[(4,5-dihydro-3-isoxazolyl)methyl]-4-
(methylsulfonyl)phenyl](1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA
INDEX NAME)



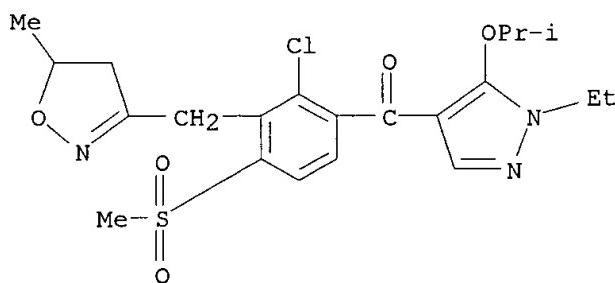
RN 220283-05-6 CAPLUS

CN Methanone, [2-chloro-3-[(4,5-dihydro-5-methyl-3-isoxazolyl)methyl]-4-(methylsulfonyl)phenyl](1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



RN 220283-06-7 CAPLUS

CN Methanone, [2-chloro-3-[(4,5-dihydro-5-methyl-3-isoxazolyl)methyl]-4-(methylsulfonyl)phenyl][1-ethyl-5-(1-methylethoxy)-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L12 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:745038 CAPLUS

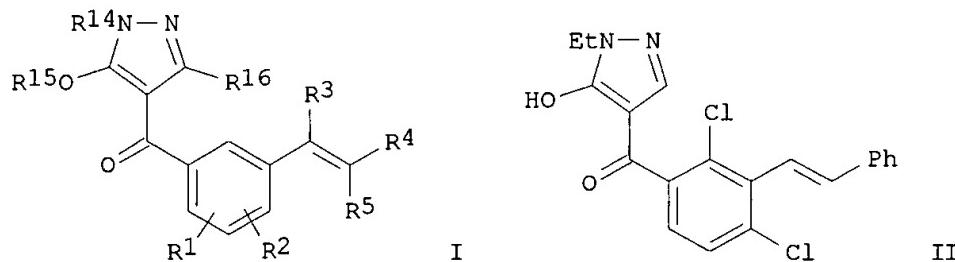
DOCUMENT NUMBER: 129:343490

TITLE: Preparation of 4-(3-alkenylbenzoyl)pyrazoles as herbicides.

INVENTOR(S) : Baumann, Ernst; Von Deyn, Wolfgang; Engel, Stefan;
 Hill, Regina Luise; Kardorff, Uwe; Mayer, Guido;
 Otten, Martina; Rack, Michael; Rheinheimer, Joachim;
 Witschel, Matthias; Westphalen, Karl-otto; Missblitz,
 Ulf; Walter, Helmut
 PATENT ASSIGNEE(S) : Basf A.-G., Germany; et al.
 SOURCE: PCT Int. Appl., 294 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|--------------------|------------|
| WO 9850366 | A1 | 19981112 | WO 1998-EP2433 | 19980505 |
| W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, ID, IL, JP, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, UZ, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| AU 9876479 | A1 | 19981127 | AU 1998-76479 | 19980505 |
| AU 749055 | B2 | 20020620 | | |
| EP 984944 | A1 | 20000315 | EP 1998-924195 | 19980505 |
| R: AT, BE, CH, DE, ES, FR, GB, LI, PT | | | | |
| BR 9809788 | A | 20000620 | BR 1998-9788 | 19980505 |
| JP 2001527548 | T2 | 20011225 | JP 1998-547674 | 19980505 |
| ZA 9803797 | A | 19991117 | ZA 1998-3797 | 19980506 |
| MX 9909698 | A | 20000430 | MX 1999-9698 | 19991022 |
| US 6143696 | A | 20001107 | US 1999-423077 | 19991122 |
| PRIORITY APPLN. INFO.: | | | DE 1997-19726710 A | 19970507 |
| | | | WO 1998-EP2433 | W 19980505 |

OTHER SOURCE(S) : MARPAT 129:343490
 GI



AB Title compds. [I; R1, R2 = H, NO₂, halo, cyano, rhodano, (halo)alkyl, alkoxyalkyl, alkenyl, alkynyl, OR₆, OCOR₇, OSO₂R₇, SH, S(O)nR₈, SO₂OR₆, SO₂NR₆R₉, NR₉SO₂R₇, NR₉COR₇; n = 0-2; R3 = H, halo, (halo)alkyl, alkoxy, alkenyl, alkynyl; R4, R5 = H, NO₂, halo, cyano, rhodano, (halo)alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, alkythio, haloalkoxy, COR₁₀, CO₂R₁₀, COSR₁₀, CONR₁₀R₁₁, C(R₁₂):NR₁₃, PO(OR₁₀)(OR₁₁), (substituted) alkyl, heterocyclyl(alkyl), Ph, phenylalkyl, heteroaryl(alkyl); R4R5C = (substituted and/or heteroatom-interrupted) alkylene; R6 = H, (halo)alkyl,

alkoxyalkyl, alkenyl, alkynyl; R7 = (halo)alkyl; R8 = (halo)alkyl, alkoxyalkyl, alkenyl, alkynyl; R9 = H, alkyl; R10 = H, cycloalkyl, (halo)alkyl, alkenyl, alkynyl, (substituted) Ph, PhCH₂; R11 = H, alkyl, alkenyl, alkynyl; R10R11 = (substituted and/or heteroatom-interrupted) alkylene; R12 = H, (halo)alkyl, alkoxy, alkoxy carbonyl, cycloalkyl, alkenyl, alkynyl, (substituted) Ph, PhCH₂; R13 = (halo)alkyl, cycloalkyl, alkenyl, alkynyl, (halo)alkoxy, cycloalkoxy, alkenyloxy, Ph, PhCH₂; R14 = (halo)alkyl, (substituted) Ph, PhCH₂; R15 = H, (halo)alkyl, (halo) alkylcarbonyl, alkoxy carbonyl, (halo)alkylsulfonyl, (substituted) phenylalkyl, PhCO, PhCOCH₂, PhO₂C, PhSO₂; R16 = H, (halo)alkyl], were prepd. Title compd. (II) at 0.25-0.5 kg/ha postemergent was said to give very good herbicidal activity while leaving summer wheat undamaged.

IT 215363-74-9P 215363-75-0P 215363-76-1P

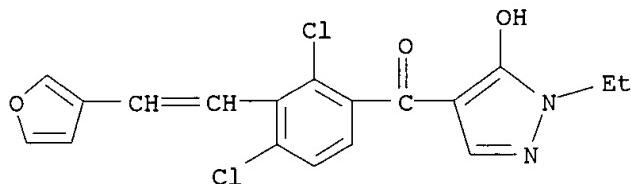
215363-78-3P 215363-88-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of 4-(3-alkenylbenzoyl)pyrazoles as herbicides)

RN 215363-74-9 CAPPLUS

CN Methanone,

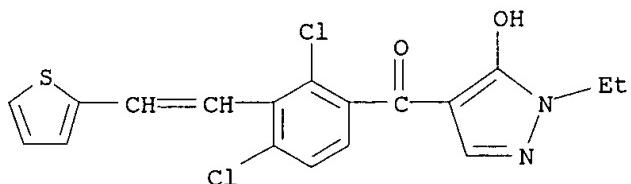
[2,4-dichloro-3-[2-(3-furanyl)ethenyl]phenyl](1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



RN 215363-75-0 CAPPLUS

CN Methanone,

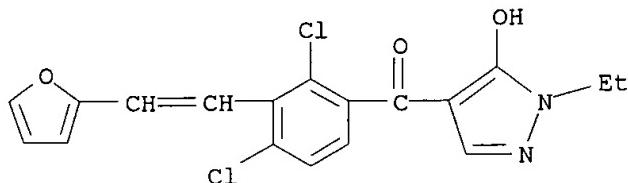
[2,4-dichloro-3-[2-(2-thienyl)ethenyl]phenyl](1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



RN 215363-76-1 CAPPLUS

CN Methanone,

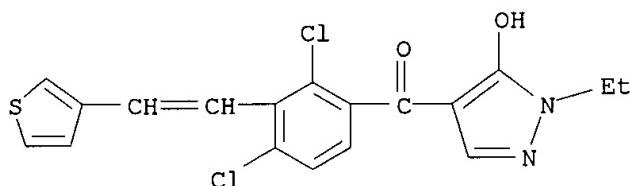
[2,4-dichloro-3-[2-(3-furanyl)ethenyl]phenyl](1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



RN 215363-78-3 CAPLUS

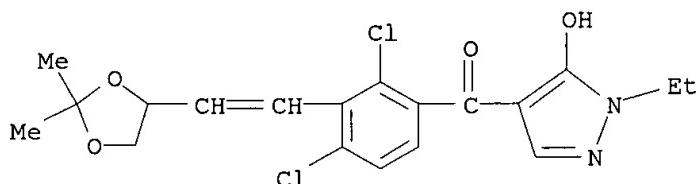
CN Methanone,

[2,4-dichloro-3-[2-(3-thienyl)ethenyl]phenyl](1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



RN 215363-88-5 CAPLUS

CN Methanone, [2,4-dichloro-3-[2-(2,2-dimethyl-1,3-dioxolan-4-yl)ethenyl]phenyl](1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L12 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:128298 CAPLUS

DOCUMENT NUMBER: 126:283263

TITLE: Extraction of copper with
1,3-bis(1'-phenyl-3'-methyl-

5'-hydroxypyrazol-4'-oyl)benzene and with some
.alpha.,.omega.-bis(1'-phenyl-3'-methyl-5'-
hydroxypyrazol-4'-oyl)alkanes in chloroform

AUTHOR(S): Guiguemde, I.; Diantouba, B. A.; Lakkis, D.;
Goetz-Grandmont, G. J.; Brunette, J. P.

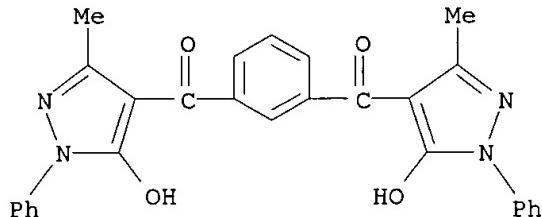
CORPORATE SOURCE: Lab. Chimie Analytique Minerale, ECPMS, Strasbourg,
67008, Fr.

SOURCE: Analusis (1996), 24(8), 318-324

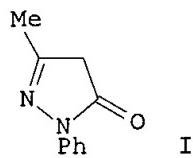
CODEN: ANLSCY; ISSN: 0365-4877

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The extn. of copper with the new extractant
 1,3-bis(1'-phenyl-3'-methyl-5'-hydroxypyrazol-4'-oyl)benzene, 'HL-mPh-LH', has been studied and compared to its extn. with the linear chain analogs, the .alpha.,.omega.-bis(1'-phenyl-3'-methyl-5'-hydroxypyrazol-4'-oyl-)alkanes, 'HL-n-LH'(n, no. of methylene links). HL-mPh-LH is less lipophilic and more acidic than HL-n-LH. It appears under a keto-enol or diketo-amine tautomeric form in methanol and under an intramolecularly H-bonded chelated form in chloroform. Both forms are obsd. in the solid state. Copper is extd. in chloroform as Cu(L-mPh-LH)2, Cu2(L-mPh-L)2, Cu2(L-7-L)2 and Cu(L-n-L),
 for n .gtoreq. 8, although third-phase formation and loss of copper hinder the extn. with HL-4-LH. 1,2-Dichloroethane is a more efficient diluent than chloroform. The special advantage of HL-mPh-LH is to reduce the main drawback obsd. with those extractants, i.e., third-phase formation.
 IT 122993-33-3P
 RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)
 (extn. of copper with bis(phenylmethylhydroxypyrazolone)benzene and with bis(phenylmethylhydroxypyrazolone)alkanes in chloroform)
 RN 122993-33-3 CAPLUS
 CN Methanone,
 1,3-phenylenebis[(5-hydroxy-3-methyl-1-phenyl-1H-pyrazol-4-yl)-
 (9CI) (CA INDEX NAME)



L12 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1991:177 CAPLUS
 DOCUMENT NUMBER: 114:177
 TITLE: Antiviral activity of certain acylpyrazolones
 AUTHOR(S): Galabov, A.; Terebenina, A.; Dimitrova, K.; Todorova, O.; Karparov, A.; Borisov, G.
 CORPORATE SOURCE: Inst. Microbiol., Sofia, Bulg.
 SOURCE: Doklady Bolgarskoi Akademii Nauk (1990), 43(5), 61-4
 CODEN: DBANAD; ISSN: 0366-8681
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB This study examd. the antiviral activity of some derivs. of 3-methyl-1-phenyl-pyrazolone-5 (MPP-5, I) as well as their complexes with copper, zinc, iron and manganese. The results show that almost always active are the 4-substituted acyclic derivs., giving chelated complexes with a lot of metals. This allows the assumption that the biol. activity is related to transfer of metals.

IT 112525-82-3

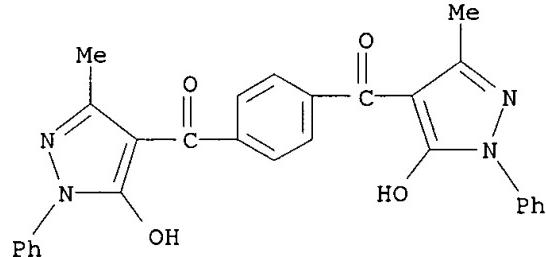
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(antiviral activity of, structure in relation to)

RN 112525-82-3 CAPLUS

CN Methanone,

1,4-phenylenebis[(5-hydroxy-3-methyl-1-phenyl-1H-pyrazol-4-yl)-
(9CI) (CA INDEX NAME)]



L12 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1990:98519 CAPLUS

DOCUMENT NUMBER: 112:98519

TITLE: Preparation of benzoylpyrazoles as herbicides

INVENTOR(S): Baba, Masatoshi; Kakuta, Takuya; Tanaka, Norio; Oya, Eiichi; Ikai, Takashi; Nawamaki, Tsutomu; Watanabe, Shigeomi

PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan; CG

SOURCE: Eur. Pat. Appl., 305 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

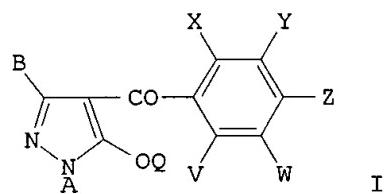
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| EP 282944 | A2 | 19880921 | EP 1988-103999 | 19880314 |
| EP 282944 | A3 | 19911009 | | |

| | | | | |
|---|----|----------------|-----------------|----------|
| EP 282944 | B1 | 19960911 | | |
| R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| US 4885022 | A | 19891205 | US 1987-122366 | 19871118 |
| IL 85659 | A1 | 19920329 | IL 1988-85659 | 19880307 |
| AU 8813099 | A1 | 19880915 | AU 1988-13099 | 19880311 |
| AU 599468 | B2 | 19900719 | | |
| US 4948887 | A | 19900814 | US 1988-168139 | 19880314 |
| CA 1328260 | A1 | 19940405 | CA 1988-561419 | 19880314 |
| AT 142624 | E | 19960915 | AT 1988-103999 | 19880314 |
| ES 2094719 | T3 | 19970201 | ES 1988-103999 | 19880314 |
| HU 45847 | A2 | 19880928 | HU 1988-1213 | 19880315 |
| HU 204513 | B | 19920128 | | |
| JP 02000173 | A2 | 19900105 | JP 1988-61349 | 19880315 |
| JP 2725274 | B2 | 19980311 | | |
| CN 88101455 | A | 19880928 | CN 1988-101455 | 19880316 |
| CN 1023011 | B | 19931208 | | |
| ZA 8801873 | A | 19891129 | ZA 1988-1873 | 19880316 |
| RO 100305 | B1 | 19920608 | RO 1988-132602 | 19880316 |
| RO 105806 | B1 | 19921230 | RO 1988-143594 | 19880316 |
| SU 1836018 | A3 | 19930823 | SU 1988-4355524 | 19880316 |
| DK 8801464 | A | 19880918 | DK 1988-1464 | 19880317 |
| DK 170668 | B1 | 19951127 | | |
| BR 8801218 | A | 19881025 | BR 1988-1218 | 19880317 |
| US 5175299 | A | 19921229 | US 1991-785241 | 19911101 |
| RU 2055836 | C1 | 19960310 | RU 1992-5011738 | 19920521 |
| JP 10095702 | A2 | 19980414 | JP 1997-211488 | 19970806 |
| JP 2943778 | B2 | 19990830 | | |
| JP 11171828 | A2 | 19990629 | JP 1998-248300 | 19980902 |
| JP 3008398 | B2 | 20000214 | | |
| PRIORITY APPLN. INFO.: | | | | |
| | | JP 1987-61937 | A | 19870317 |
| | | JP 1987-179797 | A | 19870717 |
| | | JP 1987-247601 | A | 19870930 |
| | | JP 1988-5449 | A | 19880113 |
| | | US 1987-122366 | B2 | 19871118 |
| | | EP 1988-103999 | | 19880314 |
| | | US 1988-168139 | A3 | 19880314 |
| | | JP 1988-61349 | A3 | 19880315 |
| | | JP 1997-211488 | A3 | 19880315 |
| | | US 1990-504311 | B3 | 19900404 |

OTHER SOURCE(S): MARPAT 112:98519
GI

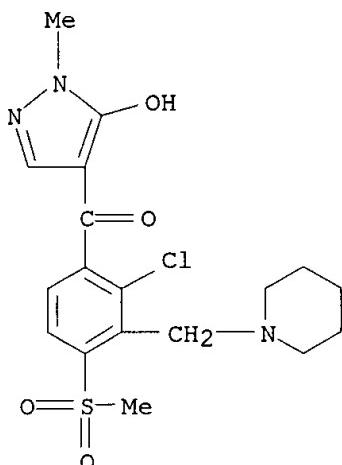


AB Title compds. I [A = C1-3 alkyl, C2-4 alkenyl, C2-4 alkynyl; B = H, C1-3 alkyl, halo, halo-C1-3 alkyl, C1-3 alkoxy, C1-3 alkylthio, C2-4 alkoxyalkyl, C2-4 alkylthioalkyl, C2-4 alkoxy carbonyl; X = C1-6 alkyl, C1-6 alkoxy, C2-6 alkoxyalkyl, halo, O2N, cyano, halo-C1-6 alkyl, etc.; Y = R1O2C, R1 = H, C1-6 alkyl, C3-8 cycloalkyl, C3-8 alkynyl, C2-6 alkenyl,

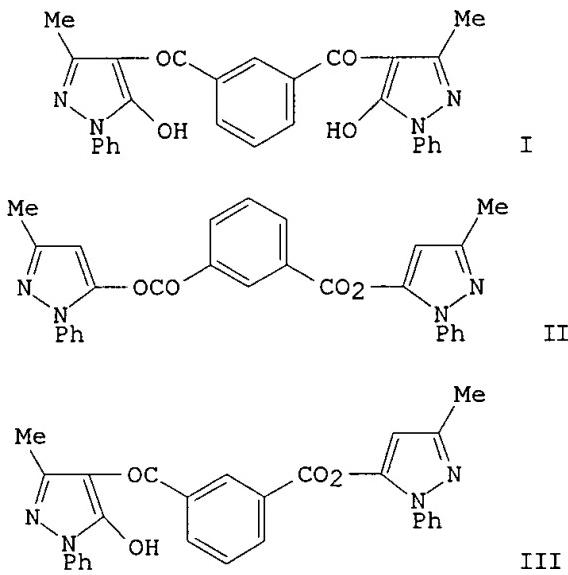
etc.; Z = halo, O₂N, C₁-3 alkoxy, F₃C, cyano, C₁-4 alkylthio, etc.; V = H, halo, C₁-4 alkyl, C₁-4 alkoxy; W = H, halo, C₁-4 alkyl, halo-C₁-4 alkyl, C₁-4 alkoxy, C₂-6 alkoxyalkyl, O₂N, cyano, C₁-4 alkylthio, etc.; Q = H, (un)substituted C₁-6 alkyl, (un)substituted C₁-6 alkenyl, NCC₂, (un)substituted Bz, C₁-6 alkynyl, etc.] and a salt thereof, are prepd. 2,3,4-Me(MeOCH₂)(MeSO₂)C₆H₂CO₂H, 1-ethyl-5-hydroxypyrazole, DCC, and anhydrt. K₂CO₃ were sequentially reacted at 80-90.degree. to give I (A = Et; B = Q = V = W = H; X = Me; Y = MeOCH₂; Z = MeSO₂) (II) in 66% yield. In soil and foliage treatment II, at 0.5 g/are, gave >90 control of such weeds as Echinochloa crus-gali, Setaria viridis, Eleusine indica, Digitaria adscendens, etc., without damage to corn.

IT 120101-18-0P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of, as herbicide)

RN 120101-18-0 CAPLUS
CN Methanone, [2-chloro-4-(methylsulfonyl)-3-(1-piperidinylmethyl)phenyl](5-hydroxy-1-methyl-1H-pyrazol-4-yl)-(9CI) (CA INDEX NAME)



L12 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1989:553690 CAPLUS
 DOCUMENT NUMBER: 111:153690
 TITLE: Interaction of 3-methyl-1-phenyl-5-pyrazolone with isophthaloyl and phthaloyl chloride
 Terebenina, A.; Dimitrova, K.; Borisov, G.
 AUTHOR(S):
 CORPORATE SOURCE: Inst. Gen. Inorg. Chem., Sofia, 1040, Bulg.
 SOURCE: Izvestiya po Khimiya (1988), 21(1), 3-8
 CODEN: IZKHDX; ISSN: 0324-0401
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 111:153690
 GI



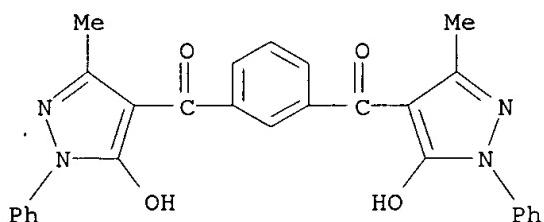
AB The products of the title reactions depend on the reaction conditions. Thus, reaction of the pyrazolone with isophthaloyl chloride in pyridine contg. CaO gave 73% 4,4'-linked product (I), whereas the reaction in petroleum ether-benzene gave 80% 5,5'-linked product (II) and the reaction in THF contg. CaO gave 57% 4,5'-linked product (III).

IT 122993-33-3P 122993-39-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 122993-33-3 CAPLUS

CN Methanone,

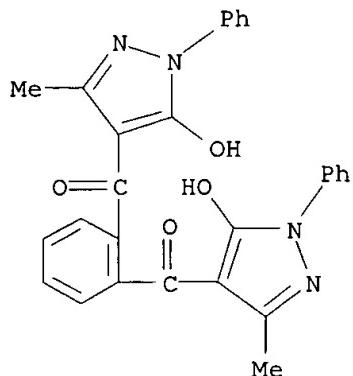
1,3-phenylenebis[(5-hydroxy-3-methyl-1-phenyl-1H-pyrazol-4-yl)-
(9CI) (CA INDEX NAME)]



RN 122993-39-9 CAPLUS

CN Methanone,

1,2-phenylenebis[(5-hydroxy-3-methyl-1-phenyl-1H-pyrazol-4-yl)-
(9CI) (CA INDEX NAME)]



L12 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1988:59051 CAPLUS

DOCUMENT NUMBER: 108:59051

TITLE: Metal-deactivating properties of some derivatives of 1-phenyl-3-methyl-5-pyrazolone in oxidation processes

AUTHOR(S): Tanielyan, S.; Terebenina, A.; Ivanov, S.; Dimitrova, K.; Boneva, M.; Todorova, O.; Borisov, G.; Iordanov, N.

CORPORATE SOURCE: Inst. Org. Chem., Sofia, 1040, Bulg.

SOURCE: Izvestiya po Khimiya (1987), 20(3), 344-48

CODEN: IZKHDX; ISSN: 0324-0401

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB Five derivs. of 1-phenyl-3-methyl-5-pyrazolone were studied as Cu²⁺ deactivators for gasoline. Two of these compds. increased the induction time of gasoline oxidn. (at 393K and 1 MPa O₂) in the presence of Cu²⁺ from

40 to 152-215 min, which was comparable to that for Ionol. Cu complexes with all these derivs. were strong oxidn. initiators.

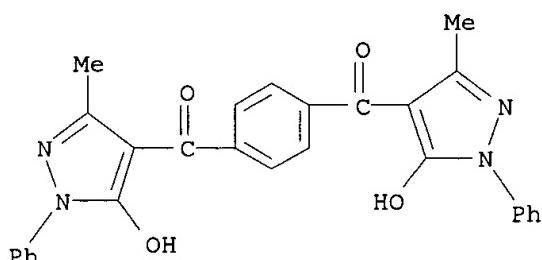
IT 112525-82-3

RL: USES (Uses)
(gasoline copper deactivator)

RN 112525-82-3 CAPLUS

CN Methanone,

1,4-phenylenebis[(5-hydroxy-3-methyl-1-phenyl-1H-pyrazol-4-yl)-]
(9CI) (CA INDEX NAME)

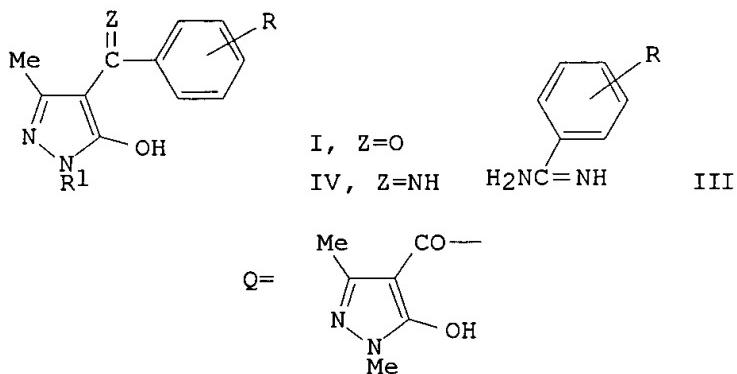


L12 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS

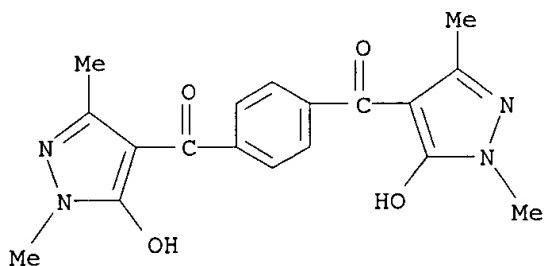
ACCESSION NUMBER: 1977:423270 CAPLUS

DOCUMENT NUMBER: 87:23270
 TITLE: 4-Benzoylpyrazole derivatives
 INVENTOR(S): Jojima, Teruomi; Takeshiba, Hideo; Tomita, Kazuo;
 Konotsune, Takuo
 PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 51146464 | A2 | 19761216 | JP 1975-68814 | 19750607 |
| JP 59024146 | B4 | 19840607 | | |
| PRIORITY APPLN. INFO.: | | | JP 1975-68814 | 19750607 |
| GI | | | | |



- AB Herbicidal (no data) 4-benzoyl-5-hydroxypyrazole derivs. I (R,R1 = 2,4-C12, Me (II); 2,4-C12, CH₂CO₂Et; 4-NO₂, Me; 2,4-C12, allyl) were prep'd. by reaction of hydroxymethylpyrazoles with benzamidine derivs. III followed by hydrolysis of the resulting imidoyle derivs. IV. Analogously, 4-QC₆H₄Q were prep'd. by reaction of hydroxypyrazoles with terephthalimidine followed by hydrolysis. Thus, a mixt. of 11.2 g 1,3-dimethyl-5-hydroxypyrazole and 24.7 g 2,4-dichlorobenzamidine in xylene was refluxed 4 h to give 77% 1,3-dimethyl-4-(2,4-dichlorobenzimidoyl)-5-hydroxypyrazole, which (5 g) was refluxed in 5% aq. NaOH 3 h to give 4.2 g II.
 IT **63124-50-5P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 63124-50-5 CAPLUS
 CN Methanone, 1,4-phenylenebis[(5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)-(9CI) (CA INDEX NAME)]



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COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

63.25

513.81

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

ENTRY

TOTAL
SESSION

CA SUBSCRIBER PRICE

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-8.46

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NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and
IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and
ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search fields
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on
STN
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36 Dec 17 TOXCENTER enhanced with additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 38 Dec 30 ISMEC no longer available

NEWS 39 Jan 21 NUTRACEUT offering one free connect hour in February 2003
NEWS 40 Jan 21 PHARMAML offering one free connect hour in February 2003
NEWS 41 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
ENERGY, INSPEC
NEWS 42 Feb 13 CANCERLIT is no longer being updated
NEWS 43 Feb 24 METADEX enhancements
NEWS 44 Feb 24 PCTGEN now available on STN
NEWS 45 Feb 24 TEMA now available on STN
NEWS 46 Feb 26 NTIS now allows simultaneous left and right truncation
NEWS 47 Feb 26 PCTFULL now contains images
NEWS 48 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 49 Mar 19 APOLLIT offering free connect time in April 2003
NEWS 50 Mar 20 EVENTLINE will be removed from STN
NEWS 51 Mar 24 PATDPAFULL now available on STN
NEWS 52 Mar 24 Additional information for trade-named substances without
structures available in REGISTRY
NEWS 53 Mar 24 Indexing from 1957 to 1966 added to records in CA/CAPLUS

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CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

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DICTIONARY FILE UPDATES: 2 APR 2003 HIGHEST RN 501410-52-2

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<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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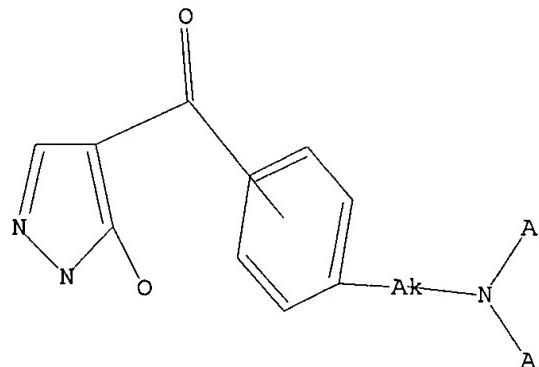
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L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS

L1 STR



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FULL SCREEN SEARCH COMPLETED - 12321 TO ITERATE

100.0% PROCESSED 12321 ITERATIONS
SEARCH TIME: 00.00.01

32 ANSWERS

L2 32 SEA SSS FUL L1

=> s 12 and caplus/lc
27129798 CAPLUS/LC

L3 32 L2 AND CAPLUS/LC

=> fil caplus

COST IN U.S. DOLLARS

FULL ESTIMATED COST

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 152.37 | 152.58 |

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FILE LAST UPDATED: 3 Apr 2003 (20030403/ED)

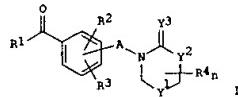
This file contains CAS Registry Numbers for easy and accurate substance identification.

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L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:107336 CAPLUS
 DOCUMENT NUMBER: 136:151159
 TITLE: Preparation of heterocarylidene cyanamides as herbicides
 INVENTOR(S): Mueller, Klaus-Helmut; Herrmann, Stefan;
 Hoischen,
 Dorothee; Lehr, Stefan; Schwarz, Hans-Georg;
 Schallner, Otto; Drewes, Mark Wilhelm; Dahmen,
 Peter;
 Feucht, Dieter; Pontzen, Rolf
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 85 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|--------|------------|--------------------|----------|
| WO 2002010155 | A1 | 20020207 | WO 2001-EP8225 | 20010717 |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GE, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG DE 10037149 | A1 | 20020207 | DE 2000-10037149 | 20000729 |
| PRIORITY APPLN. INFO.: | | | DE 2000-10037149 A | 20000729 |
| OTHER SOURCE(S): | HARPAT | 136:151159 | | |

G1



AB Title compds. [I]; n = 0-4; A = alkylene; R1 = (substituted)
 1-oxocyclohex-2-en-2-yl, 1H-pyrazol-4-yl, 4-isoxazolyl,
 alkylcarbonyl; R2,

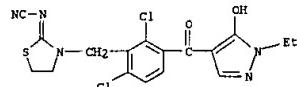
L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)
 R3 = H, NO₂, cyano, CO₂H, carbamoyl, thiocarbamoyl, halo,
 (substituted)
 alkyl, alkoxy, etc.; R4 = (substituted) alkyl; Y1 = bond, O, S, NZ,
 (substituted) alkylene; Y2 = S, NZ; Y3 = NY4, NY4S, O; Y4 = H, cyano,
 NO₂, (substituted) alkylcarbonyl, alkylsulfonyl, arylcarbonyl,
 arylsulfonyl; Y5 = cyano, NO₂, (substituted) alkylcarbonyl,
 alkylsulfonyl,
 arylcarbonyl, arylsulfonyl; Z = H, (substituted) alkyl, alkenyl,
 alkynyl],
 were prep'd. Thus, a mixt. of
 2-[2-(2-cyanoimino-1,3-thiazol-3-ylmethyl)-4-
 trifluoromethylbenzoic acid (prepn. given), 1,3-cyclohexanone, and
 dicyclohexylcarbodiimide (DCC) in MeCN was stirred for 20 h at room
 temp.
 followed by addn. of Et₃N and Me₃SiCN and stirring for 2 h at room
 temp.
 to give

3-[2-(2-[2,6-dioxocyclohexyl]carbonyl)-5-trifluoromethylbenzyl]-1,3-
 thiazol-2-ylidene cyanamide. I were said to show very strong pre- and
 postemergent herbicidal activity and good crop tolerance.

IT 395069-24-6P 395069-35-9P
 395069-36-0P 395069-37-1P 395069-38-2P
 395069-41-7P

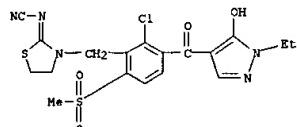
RL AG (Agricultural use); BSU (Biological study, unclassified); SPN
 (Synthetic preparation); BIOL (Biological study); PREP (Preparation);
 USES (Uses)

(prepn. of heterocarylidene cyanamides as herbicides)
 RN 395069-24-6 CAPLUS
 CN Cyanamide, [3-[2,6-dichloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-
 yl)carbonyl]phenyl]methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX
 NAME)

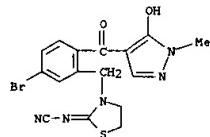


RN 395069-26-8 CAPLUS
 CN Cyanamide,
 [3-[2-chloro-3-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-6-
 (methylsulfonyl)phenyl]methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX
 NAME)

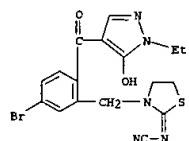
L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 395069-35-9 CAPLUS
 CN Cyanamide, [3-[5-bromo-2-[(5-hydroxy-1-methyl-1H-pyrazol-4-
 yl)carbonyl]phenyl]methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX
 NAME)

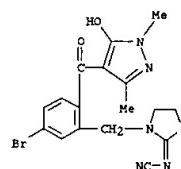


RN 395069-36-0 CAPLUS
 CN Cyanamide, [3-[5-bromo-2-[(1-ethyl-5-hydroxy-1H-pyrazol-4-
 yl)carbonyl]phenyl]methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX
 NAME)

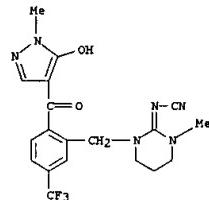


RN 395069-37-1 CAPLUS
 CN Cyanamide, [3-[5-bromo-2-[(5-hydroxy-1,3-dimethyl-1H-pyrazol-4-
 yl)carbonyl]phenyl]methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX
 NAME)

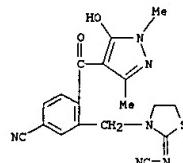
L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 395069-38-2 CAPLUS
 CN Cyanamide, [3-[2-(2-[2,6-dioxocyclohexyl]carbonyl)-5-
 (trifluoromethyl)phenyl]methyl]-3-methyl-2(1H)-
 pyrimidinylidene]- (9CI) (CA INDEX NAME)



RN 395069-41-7 CAPLUS
 CN Cyanamide, [3-[5-cyano-2-[(5-hydroxy-1,3-dimethyl-1H-pyrazol-4-
 yl)carbonyl]phenyl]methyl]-2-thiazolidinylidene]- (9CI) (CA INDEX
 NAME)

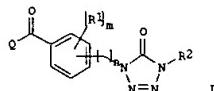


L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)
 REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:115133 CAPLUS
 DOCUMENT NUMBER: 134:163041
 TITLE: Preparation of herbicidal tetrazolinones
 INVENTOR(S): Yanagi, Akihiko; Narabu, Shinichi; Goto, Toshio; Ito, Seishi; Ueno, Chioko
 PATENT ASSIGNEE(S): Nihon Bayer Agrochem K.K., Japan
 SOURCE: PCT Int. Appl., 115 pp.
 CODEN: PIXXDZ
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 2001010850 | A1 | 20010215 | WO 2000-IB1064 | 20000728 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| BR 2000013075 | A | 20020521 | BR 2000-13075 | 20000728 |
| EP 1208090 | A1 | 20020529 | EP 2000-944182 | 20000728 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL | | | | |
| JP 2003506443 | T2 | 20030218 | JP 2001-515316 | 20000728 |
| JP 2001114769 | A2 | 20010424 | JP 2000-231450 | 20000731 |
| PRIORITY APPLN. INFO.: JP 1999-226845 A 19990810 | | | | |
| OTHER SOURCE(S): HARPAT 134:163041 | | | WO 2000-181064 | W 20000728 |
| GI | | | | |

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)



AB The title compds. [I]: R1 = halo, alkyl, haloalkyl, etc.; R2 = H, alkyl, (un)substituted cycloalkyl, etc.; m = 0-2; n = 0-1; Q = (un)substituted 1,3-dioxo-2-cyclohexanyl, 5-hydroxy-4-pyrazolyl, 4-isoxazolyl, etc., useful as herbicides, were prep'd. Thus, treatment of 2,4-dichloro-3-(4,5-dihydro-4-methyl-5-oxo-1H-tetrazol-1-yl)benzoic acid with SOCl2 followed by reaction of the resulting acid chloride with 1,3-cyclohexanedione afforded 51% II which showed more than 90% of herbicidal activity against barnyardgrass, foxtail, common amaranth and knotweed at 2.0 kg/ha. IT 325459-96-9P 325460-11-5P 325460-19-3P RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses); (prep'n. of herbicidal tetrazolinones) RN 325459-96-9 CAPLUS CN 5H-Tetrazol-5-one, 1-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl|methyl]-1,4-dihydro-4-methyl- (9CI) (CA INDEX NAME)

IT 325459-96-9P 325460-11-5P 325460-19-3P

RL: AGR (Agricultural use); BAC (Biological activity or effector,

except adverse); BSU (Biological study, unclassified); SPN (Synthetic

preparation); BIOL (Biological study); PREP (Preparation); USES

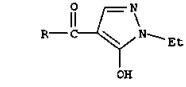
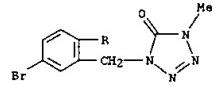
(Uses); (prep'n. of herbicidal tetrazolinones)

RN 325459-96-9 CAPLUS

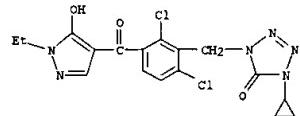
CN 5H-Tetrazol-5-one, 1-[(1-ethyl-5-hydroxy-1H-pyrazol-4-

yl)carbonyl]phenyl|methyl]-1,4-dihydro-4-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)

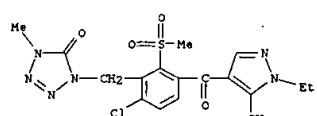


RN 325460-11-5 CAPLUS
 CN 5H-Tetrazol-5-one, 1-[(2,6-dichloro-3-((1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl)phenyl)methyl]-1,4-dihydro-4-methyl- (9CI) (CA INDEX NAME)



RN 325460-19-3 CAPLUS

CN 5H-Tetrazol-5-one, 1-[(6-chloro-3-((1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl)-2-(methylsulfonyl)phenyl)methyl]-1,4-dihydro-4-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS
 ACESSION NUMBER: 2000:666146 CAPLUS
 DOCUMENT NUMBER: 133:252427
 TITLE: Preparation of herbicidal benzoylpyrazoles
 INVENTOR(S): Mueller, Klaus-Helmut; Lehr, Stefan; Schallner, Otto;
 Schwarz, Hans-Georg; Wroblowsky, Heinz-Juergen; Drewes, Mark Wilhelm; Faucht, Dieter; Pontzen,

Rolf; Watcholowsky, Ingo
 PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: Ger. Offen., 108 pp.
 CODEN: GWXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|------------------|----------|
| DE 19914140 | A1 | 20000928 | DE 1999-19914140 | 19990327 |
| WO 2000058306 | A1 | 20001005 | WO 2000-EP2292 | 20000315 |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BE, BJ, CF, CG, CI, CH, GA, GN, GW, HL, MR, NE, SN, TD, TG BR 2000009389 A 20011226 BR 2000-9389 20000315 EP 1165547 A1 20020102 EP 2000-912609 20000315 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO JP 2002540205 T2 20021126 JP 2000-608008 20000315 PRIORITY APPLN. INFO.: DE 1999-19914140 A 19990327 WO 2000-EP2292 W 20000315 | | | | |
| OTHER SOURCE(S): MARPAT 133:252427 GI | | | | |



AB Benzoylpyrazole derivs., such as I [R = Cl, R₁ = Q, R₂ = CF₃; R = CH₂Q, R₁ = CF₃, R₂ = OEt, SMe], were prepd. for use as herbicides (no data). Thus,

the triazolylbenzoyl chloride was treated with 1-ethyl-5-pyrazolol to give

I' [R = Cl, R₁ = Q, R₂ = CF₃].

IT 295796-73-5P 295796-74-6P 295796-75-7P

295796-76-8P 295796-77-9P 295796-78-0P

295796-79-1P 295796-80-4P 295796-81-5P

295796-82-6P 295796-83-7P 295796-88-2P

295796-89-3P 295796-90-6P 295796-91-7P

295796-92-8P 295796-93-9P 295796-95-1P

295796-96-2P 295796-97-3P 295796-98-4P

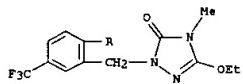
HL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL

(Biological study); PREP (Preparation); USES (Uses)
 (prep. of herbicidal benzoylpyrazoles)

RN 295796-73-5 CAPLUS

CN 3H-1,2,4-Triazol-3-one, 2-[{2-[{(1-ethyl-5-hydroxy-1H-pyrazol-4-y1)carbonyl]-5-(trifluoromethyl)phenyl]methyl}-2,4-dihydro-4-methyl-

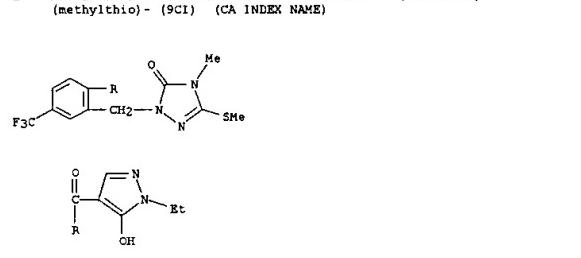
(9CI) (CA INDEX NAME)



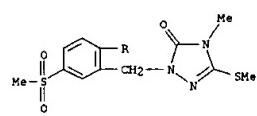
RN 295796-74-6 CAPLUS

CN 3H-1,2,4-Triazol-3-one, 2-[{2-[{(1-ethyl-5-hydroxy-1H-pyrazol-4-

y1)carbonyl]-5-(trifluoromethyl)phenyl]methyl}-2,4-dihydro-4-methyl-5-

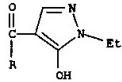
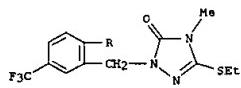


RN 295796-75-7 CAPLUS
 CN 3H-1,2,4-Triazol-3-one, 2-[{2-[{(1-ethyl-5-hydroxy-1H-pyrazol-4-y1)carbonyl]-5-(methylsulfonyl)phenyl]methyl}-2,4-dihydro-4-methyl-5-(methylthio)- (9CI) (CA INDEX NAME)

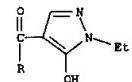
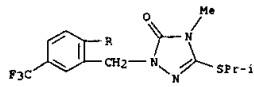


RN 295796-76-8 CAPLUS

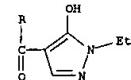
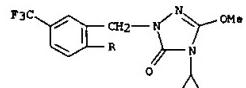
CN 3H-1,2,4-Triazol-3-one, 2-[{2-[{(1-ethyl-5-hydroxy-1H-pyrazol-4-y1)carbonyl]-5-(trifluoromethyl)phenyl]methyl}-5-(ethylthio)-2,4-dihydro-4-methyl- (9CI) (CA INDEX NAME)



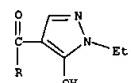
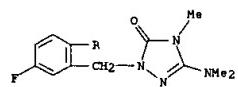
RN 295796-77-9 CAPLUS
CN 3H-1,2,4-Triazol-3-one, 2-[{2-[{(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-5-(trifluoromethyl)phenyl]methyl}-2,4-dihydro-4-methyl-5-[(1-methylethyl)thio]- (9CI) (CA INDEX NAME)



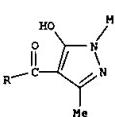
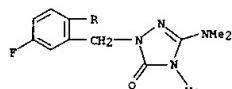
RN 295796-78-0 CAPLUS
CN 3H-1,2,4-Triazol-3-one, 4-cyclopropyl-2-[{2-[{(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-5-(trifluoromethyl)phenyl]methyl}-2,4-dihydro-5-methoxy- (9CI) (CA INDEX NAME)



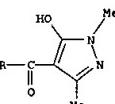
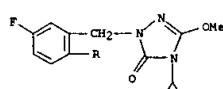
RN 295796-79-1 CAPLUS
CN 3H-1,2,4-Triazol-3-one, 5-(dimethylamino)-2-[{2-[{(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]-5-fluorophenyl]methyl}-2,4-dihydro-4-methyl- (9CI) (CA INDEX NAME)



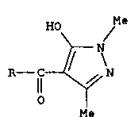
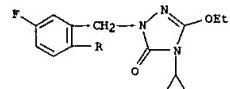
RN 295796-80-4 CAPLUS
CN 3H-1,2,4-Triazol-3-one, 5-(dimethylamino)-2-[{5-fluoro-2-[{(5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)carbonyl}phenyl]methyl}-2,4-dihydro-4-methyl- (9CI) (CA INDEX NAME)



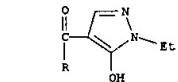
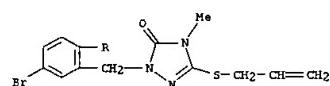
RN 295796-81-5 CAPLUS
CN 3H-1,2,4-Triazol-3-one, 4-cyclopropyl-2-[{5-fluoro-2-[{(5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)carbonyl}phenyl]methyl}-2,4-dihydro-5-methoxy- (9CI) (CA INDEX NAME)



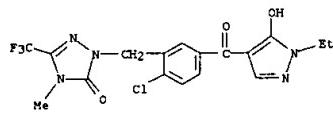
RN 295796-82-6 CAPLUS
CN 3H-1,2,4-Triazol-3-one, 4-cyclopropyl-5-ethoxy-2-[{5-fluoro-2-[{(5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)carbonyl}phenyl]methyl}-2,4-dihydro- (9CI) (CA INDEX NAME)



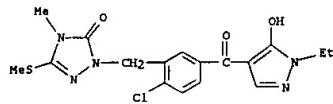
RN 295796-83-7 CAPLUS
CN 3H-1,2,4-Triazol-3-one, 2-[{5-bromo-2-[{(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl}phenyl]methyl}-2,4-dihydro-4-methyl-5-(2-propenylthio)- (9CI) (CA INDEX NAME)



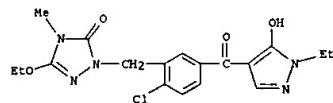
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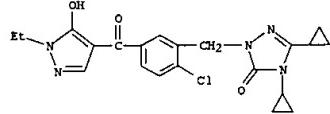
RN 295796-89-3 CAPLUS
 CN 3H-1,2,4-Triazol-3-one,
 2-[(2-chloro-5-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl)methyl]-2,4-dihydro-4-methyl-5-(methylthio)-(9CI) (CA INDEX NAME)



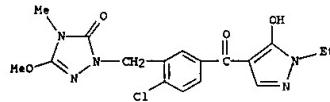
RN 295796-90-6 CAPLUS
 CN 3H-1,2,4-Triazol-3-one,
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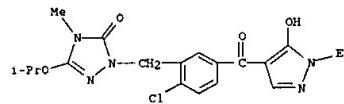
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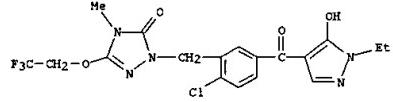
RN 295796-92-8 CAPLUS
 CN 3H-1,2,4-Triazol-3-one,
 2-[(2-chloro-5-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl)methyl]-2,4-dihydro-5-methoxy-4-methyl- (9CI) (CA INDEX NAME)



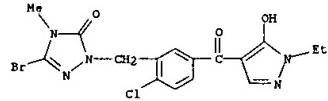
RN 295796-93-9 CAPLUS
 CN 3H-1,2,4-Triazol-3-one,
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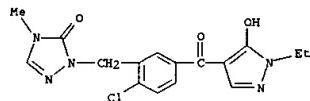
RN 295796-95-1 CAPLUS
 CN 3H-1,2,4-Triazol-3-one,
 2-[(2-chloro-5-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl)methyl]-2,4-dihydro-4-methyl-5-(2,2,2-trifluoroethoxy)-(9CI) (CA INDEX NAME)



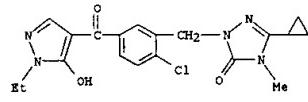
RN 295796-96-2 CAPLUS
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RN 295796-97-3 CAPLUS
 CN 3H-1,2,4-Triazol-3-one,
 2-[(2-chloro-5-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl)methyl]-2,4-dihydro-4-methyl- (9CI) (CA INDEX NAME)



RN 295796-98-4 CAPLUS
 CN 3H-1,2,4-Triazol-3-one,
 2-[(2-chloro-5-[(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)carbonyl]phenyl)methyl]-5-cyclopropyl-2,4-dihydro-4-methyl- (9CI) (CA INDEX NAME)



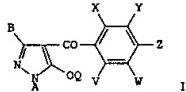
L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1990:98519 CAPLUS
 DOCUMENT NUMBER: 112:98519
 TITLE: Preparation of benzocypyrazoles as herbicides
 INVENTOR(S): Baba, Masatoshi; Kakuta, Takuya; Tanaka, Norio;
 Oya,
 Watanabe,
 PATENTEE(S): Shigeomi
 SOURCE: Nissan Chemical Industries, Ltd., Japan, CG
 DOCUMENT TYPE: Eur. Pat. Appl., 305 pp.
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| EP 282944 | A2 | 19880921 | EP 1988-103999 | 19880314 |
| EP 282944 | A3 | 19911009 | | |
| EP 282944 | B1 | 19960911 | | |
| R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| US 4885022 | A | 19891205 | US 1987-122366 | 19871118 |
| IL 85659 | A1 | 19920329 | IL 1988-85659 | 19880307 |
| AU 8813099 | A1 | 19880915 | AU 1988-13099 | 19880311 |
| AU 599468 | B2 | 19900719 | | |
| US 4948887 | A | 19900814 | US 1988-168139 | 19880314 |
| CA 1328260 | A1 | 19940405 | CA 1988-561419 | 19880314 |
| AT 142624 | E | 19960915 | AT 1988-103999 | 19880314 |
| ES 2094719 | T3 | 19970201 | ES 1988-103999 | 19880314 |
| HU 45847 | A2 | 19880928 | HU 1988-1213 | 19880315 |
| HU 204513 | B | 19920128 | | |
| JP 02000173 | A2 | 19900105 | JP 1988-61349 | 19880315 |
| JP 2725274 | B2 | 19980311 | | |
| CN 88101455 | A | 19880928 | CN 1988-101455 | 19880316 |
| CN 1023011 | B | 19931208 | | |
| ZA 8801873 | A | 19891129 | ZA 1988-1073 | 19880316 |
| RO 100305 | B1 | 19920608 | RO 1988-132602 | 19880316 |
| RO 105806 | B1 | 19921230 | RO 1988-143594 | 19880316 |
| SU 1836018 | A3 | 19930823 | SU 1988-435524 | 19880316 |
| DK 8801464 | A | 19880918 | DK 1988-1464 | 19880317 |
| DK 170668 | B1 | 19951127 | | |
| BR 8801218 | A | 19881025 | BR 1988-1218 | 19880317 |
| US 5175299 | A | 19921229 | US 1991-765241 | 19911101 |
| RU 205836 | C1 | 19960310 | RU 1992-5011738 | 19920521 |
| JP 10095702 | A2 | 19980414 | JP 1997-211488 | 19970806 |
| JP 2943778 | B2 | 19990830 | | |
| JP 11171828 | A2 | 19990629 | JP 1998-248300 | 19980902 |
| JP 3008398 | B2 | 20000214 | | |

PRIORITY APPLN. INFO.:

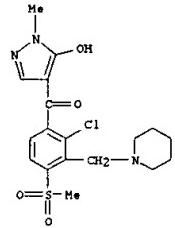
JP 1987-61937 A 19870317
 JP 1987-179797 A 19870717
 JP 1987-247601 A 19870930
 JP 1988-5449 A 19880113
 US 1987-122366 B2 19871118
 EP 1988-103999 19880314
 US 1988-168139 A3 19880314

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)
 JP 1988-61349 A3 19880315
 JP 1997-211488 A3 19880315
 US 1990-504311 B3 19900404
 OTHER SOURCE(S): MARPAT 112:98519
 GI



AB Title compds. I [A = C1-3 alkyl, C2-4 alkenyl, C2-4 alkynyl; B = H, C1-3 alkyl, halo, halo-C1-3 alkyl, C1-3 alkoxy, C1-3 alkylthio, C2-4 alkoxalkyl, C2-4 alkylthialkyl, C2-4 alkoxycarbonyl; X = C1-6 alkyl, C1-6 alkoxy, C2-6 alkoxyalkyl, halo, O2N, cyano, halo-C1-6 alkyl, etc.; Y = R102C, R1 = H, C1-6 alkyl, C3-8 cycloalkyl, C3-8 alkynyl, C2-6 alkenyl, etc.; Z = halo, O2N, C1-3 alkoxy, F3C, cyano, C1-4 alkylthio, etc.; V = H, halo, C1-4 alkyl, C1-4 alkoxy; W = H, halo, C1-4 alkyl, halo-C1-4 alkyl, C1-4 alkoxy, C2-6 alkoxyalkyl, O2N, cyano, C1-4 alkylthio, etc.; Q = H, (un)substituted C1-6 alkyl, (un)substituted C1-6 alkenyl, NCCH2, (un)substituted Bz, C1-6 alkenyl, etc.] and a salt thereof, are prep'd. Z,3,4-Me(MeCH2)(MeSO2)C6H2CO2H, 1-ethyl-5-hydroxypyrazole, DCC, and anhyd. K2CO3 were sequentially reacted at 80-90.degree. to give I (A = Et; B = Q = V = W = H; X = Me; Y = MeOCH2; Z = MeSO2) (II) in 66% yield. In soil and foliage treatment II, at 0.5 g/are, gave >90 control of such weeds as Echinochloa crus-galli, Setaria viridis, Eleusine indica, Digitaria adscendens, etc., without damage to corn. IT 120101-18-0
 RL: AG (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prep'n. of, as herbicide)
 RN 120101-18-0 CAPLUS
 CN Methanone, [Z-chloro-4-(methylsulfonyl)-3-(1-piperidinylmethyl)phenyl]-5-hydroxy-1-methyl-1H-pyrazol-4-yl]-(9CI) (CA INDEX NAME)

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS (Continued)



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|--|------------------|---------------|--|
| => fil reg | | | |
| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION | |
| FULL ESTIMATED COST | 18.98 | 171.56 | |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION | |
| CA SUBSCRIBER PRICE | -2.60 | -2.60 | |

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STRUCTURE FILE UPDATES: 2 APR 2003 HIGHEST RN 501410-52-2
 DICTIONARY FILE UPDATES: 2 APR 2003 HIGHEST RN 501410-52-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

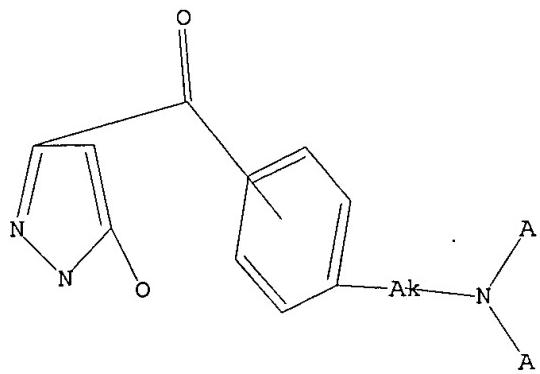
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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 L5 STR



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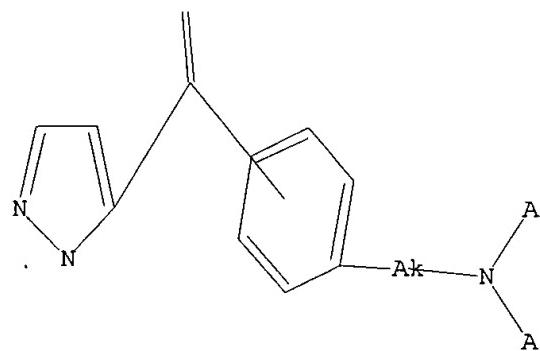
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL
ENTRY SESSION
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Mar 31, 2003 (20030331/UP).

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---Logging off of STN---

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Executing the logoff script...

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